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Author: Ali Hökerek

Concept Developer – Global Energy Corridor System

PROJECT TITLE PAGE

GLOBAL ENERGY CORRIDOR SYSTEM

Rapid Deployment Strategy to Reduce Global Dependency on the Strait of Hormuz

Strategic Concept Document

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Date: 30 Mart 2026

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CONCEPT OWNERSHIP NOTICE

This document presents an original strategic infrastructure concept titled“Global Energy Corridor System”.

This document is shared for evaluation, strategic discussion, and potential cooperation purposes only.

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ENGLISH – EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

The Strait of Hormuz is one of the most critical energy chokepoints in the world, carrying approximately 20% of global oil trade. Any disruption in this narrow maritime corridor would cause severe global economic consequences, including energy price spikes, supply chain disruptions, and large-scale economic instability across Europe and Asia.

This document proposes a strategic solution called the **Global Energy Corridor System**, a multi-route, distributed energy transportation network designed to reduce global dependency on a single chokepoint.

The project does not aim to replace the Strait of Hormuz, but to make it non-critical by creating alternative export corridors through three main routes:

- North Corridor: Gulf → Iraq → Türkiye → Europe
- West Corridor: Gulf → Saudi Arabia → Red Sea → Global Markets
- South Corridor: Gulf → UAE / Oman → Open Ocean → Asia Markets

The system is designed as a **rapid deployment energy security network** that integrates existing pipelines, LNG terminals, storage facilities, and export ports into a flexible and digitally monitored global energy distribution system.

The project can be implemented in three phases (0–36 months) and has the potential to reduce global dependency on the Strait of Hormuz by up to 70–80%.

This project should be evaluated not as a single pipeline project, but as a **global energy security and supply chain resilience system**.

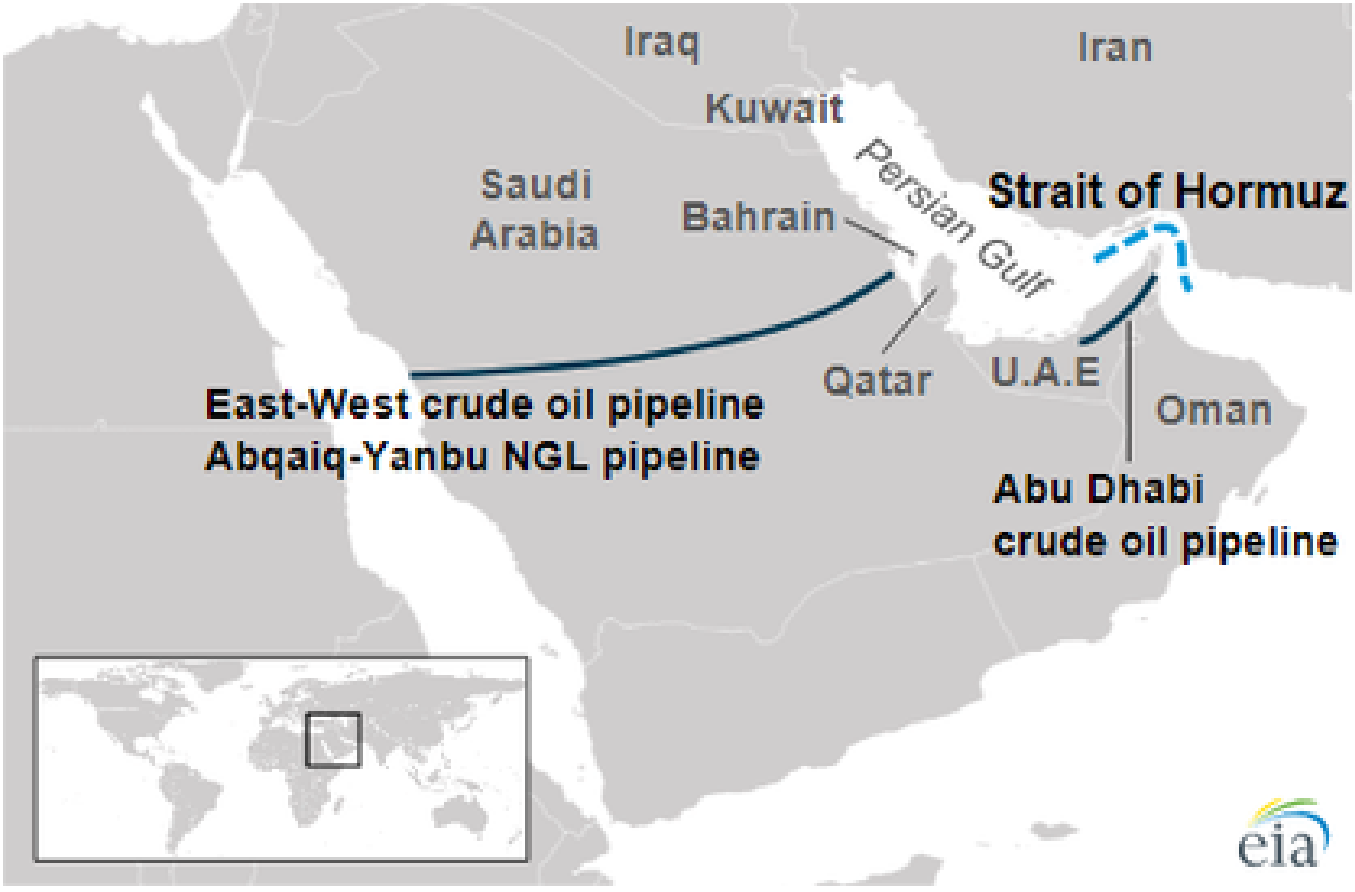
NORTH CORRIDOR MAP

Turkey
Ceyhan
Mosul
Kirkuk
Mediterranean Sea
Cyprus
Syria
Tripoli
Iraq
Lebanon
Damascus
Jordan
Amman

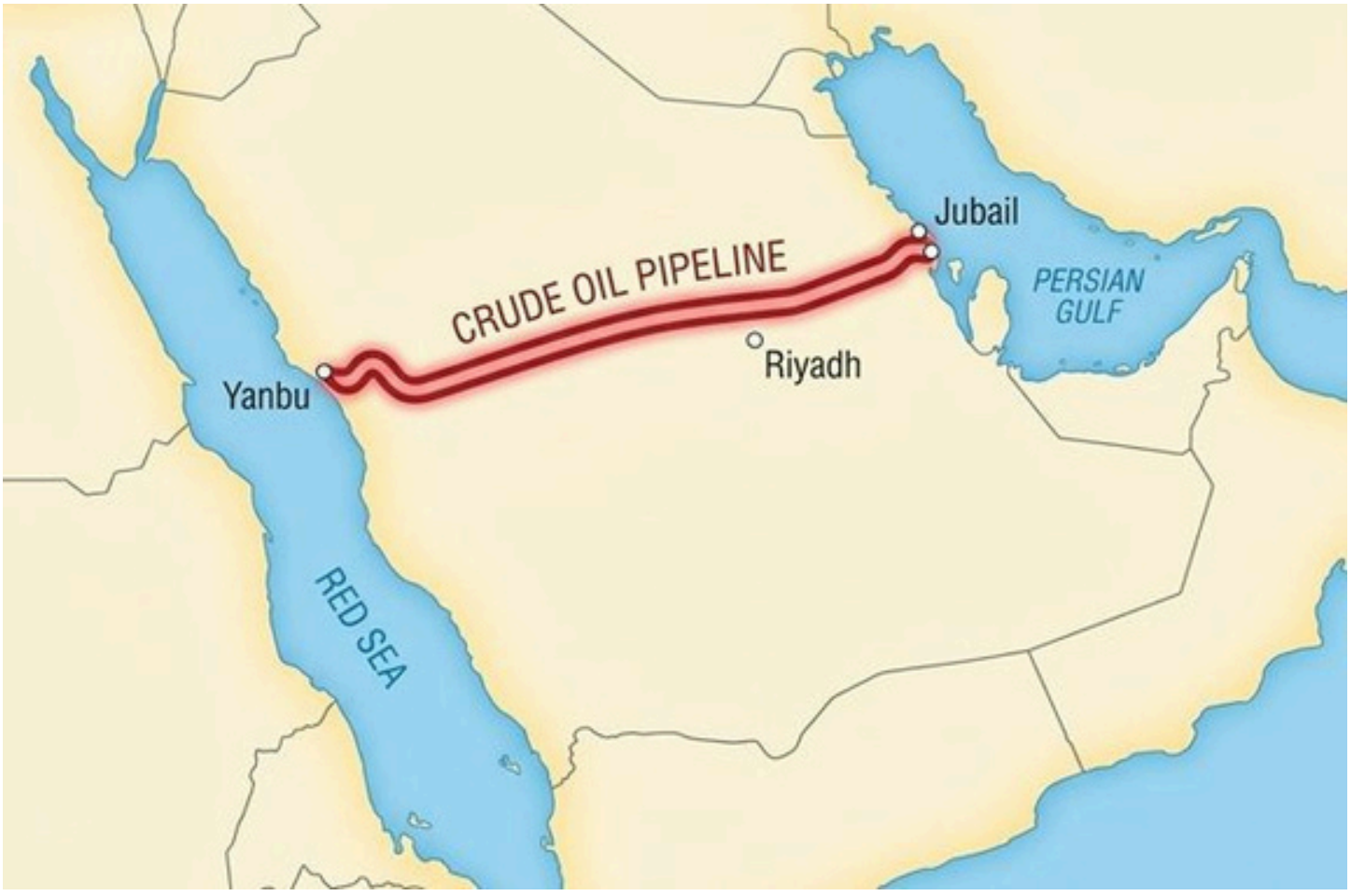
Russia
Black Sea
Georgia
Poti
Tbilisi
Akhaltsikhe
Tsalka
Caspian Sea
Ardahan
Azerbaijan
Ganja
Kars
Armenia
Yevlakh
Kurdamir
Baku
Yerevan
Sivas
Stepanakert
Turkey
Erzincan
Erzurum
Tabriz
Iran
Adana
Ceyhan
Iraq
Baku-Tbilisi-Ceyhan-Pipeline (BTC-Pipeline)
BTC - Pipeline
Pipeline
Pump station
N
Med. Sea
Syria

North Corridor connects the Gulf region to Europe through Iraq and Türkiye using existing pipeline infrastructure such as Kirkuk–Ceyhan and TANAP.

WEST CORRIDOR MAP

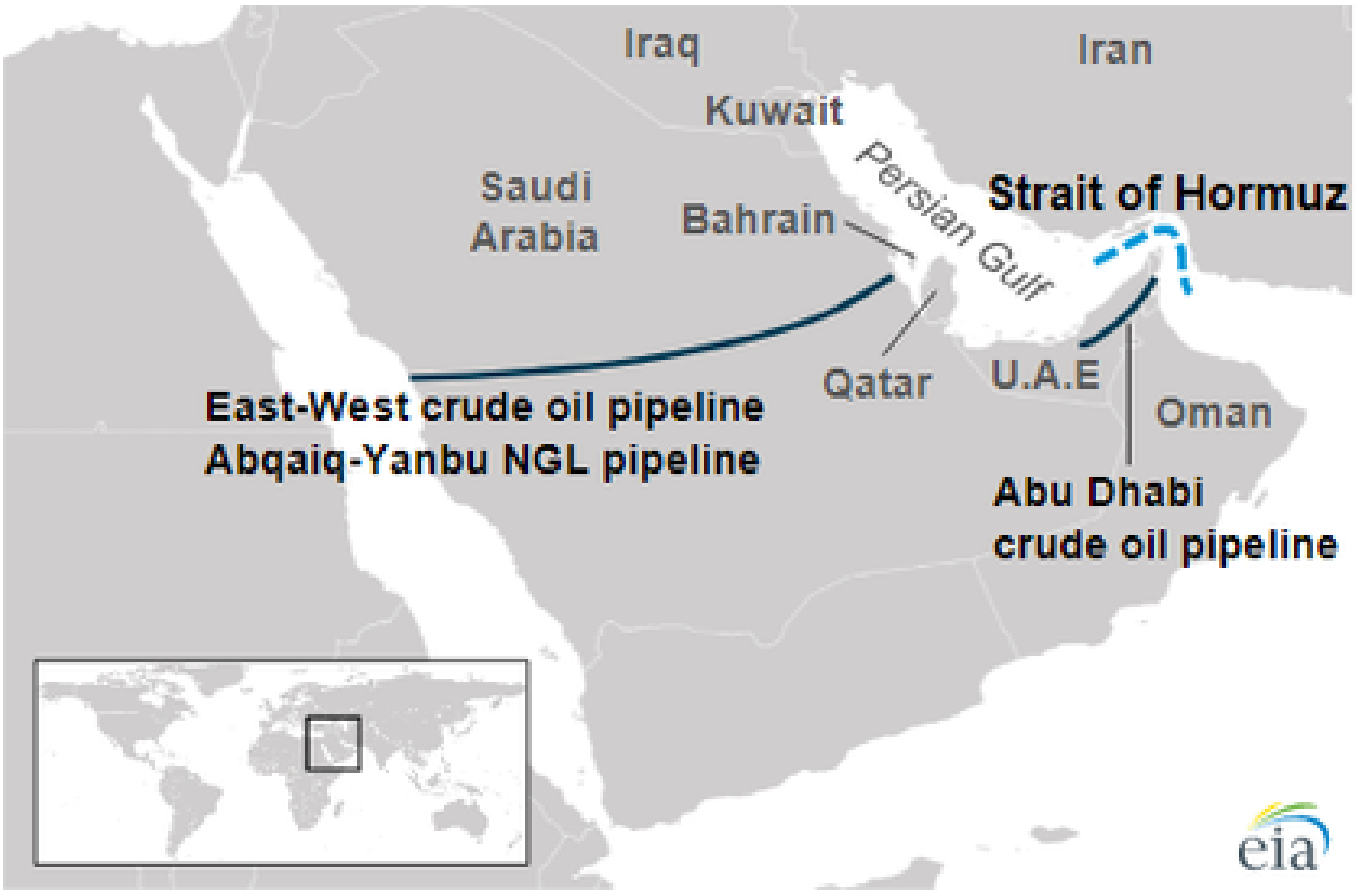


Jubail
CRUDE OIL PIPELINE
PERSIAN GULF
Riyadh
Yanbu
RED SEA

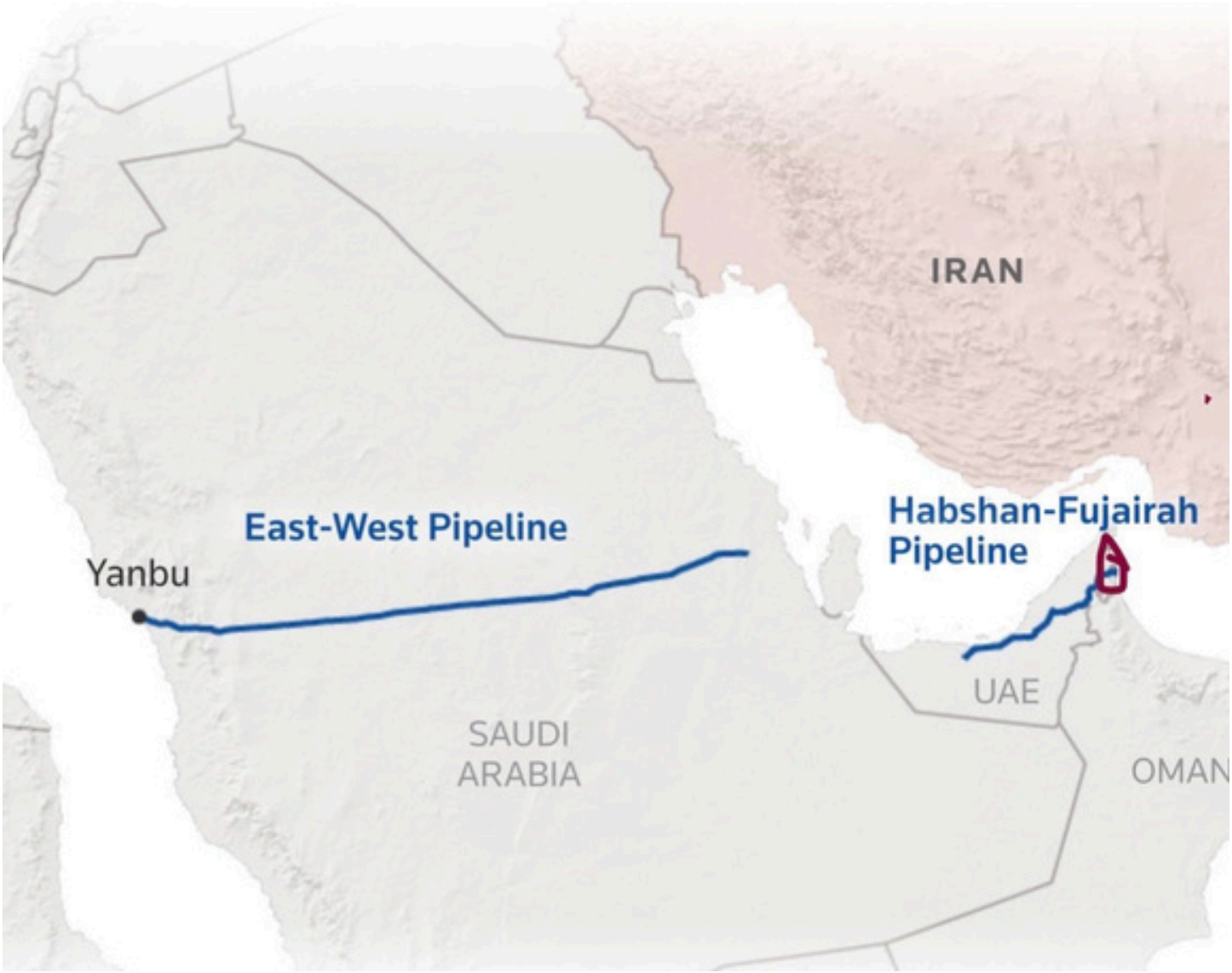

Jubail
CRUDE OIL PIPELINE
PERSIAN GULF
Riyadh
Yanbu
RED SEA

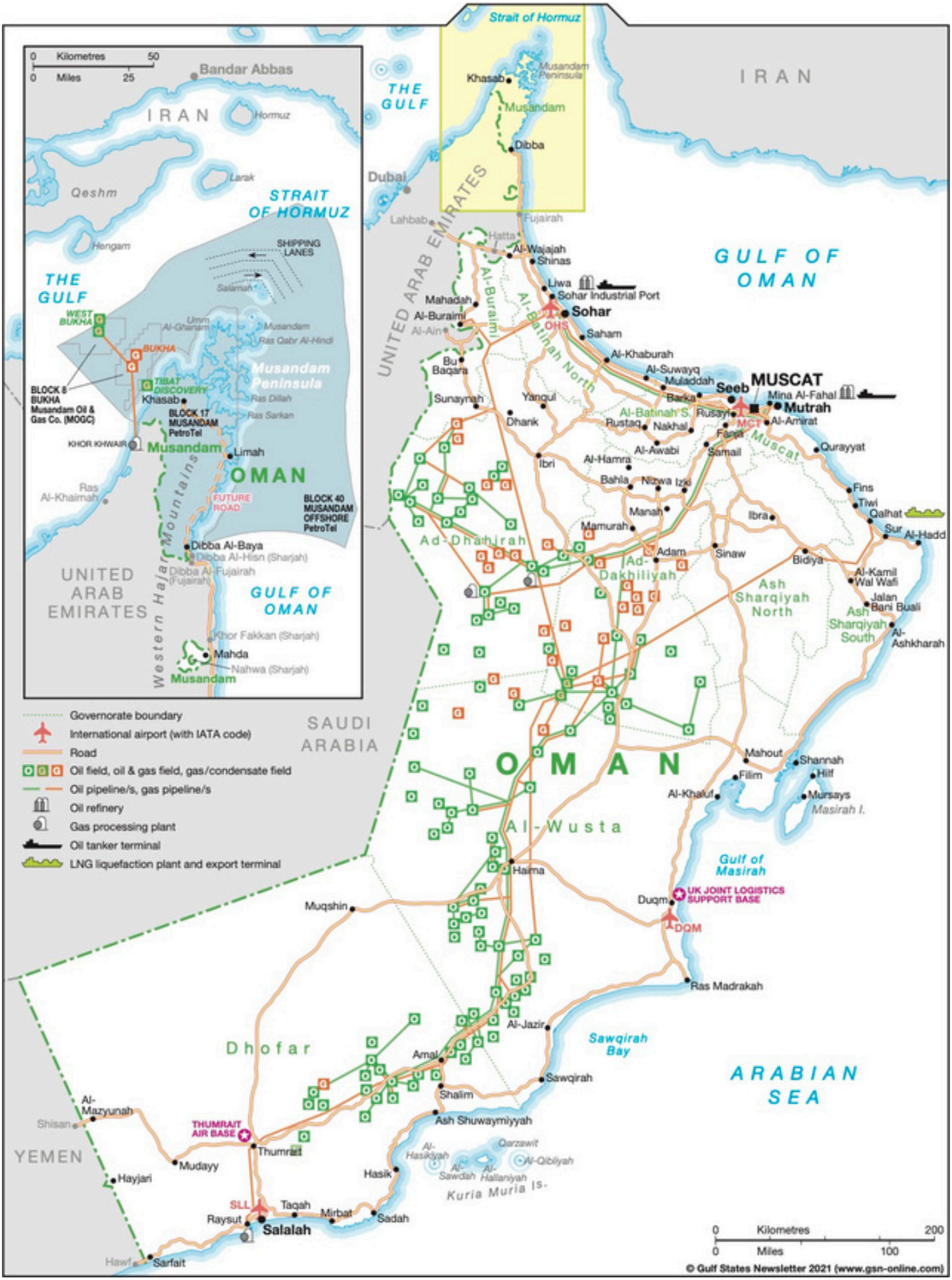
West Corridor allows Gulf oil to reach the Red Sea through Saudi Arabia using the East–West (Petroline) pipeline and Yanbu export terminal, bypassing the Strait of Hormuz.

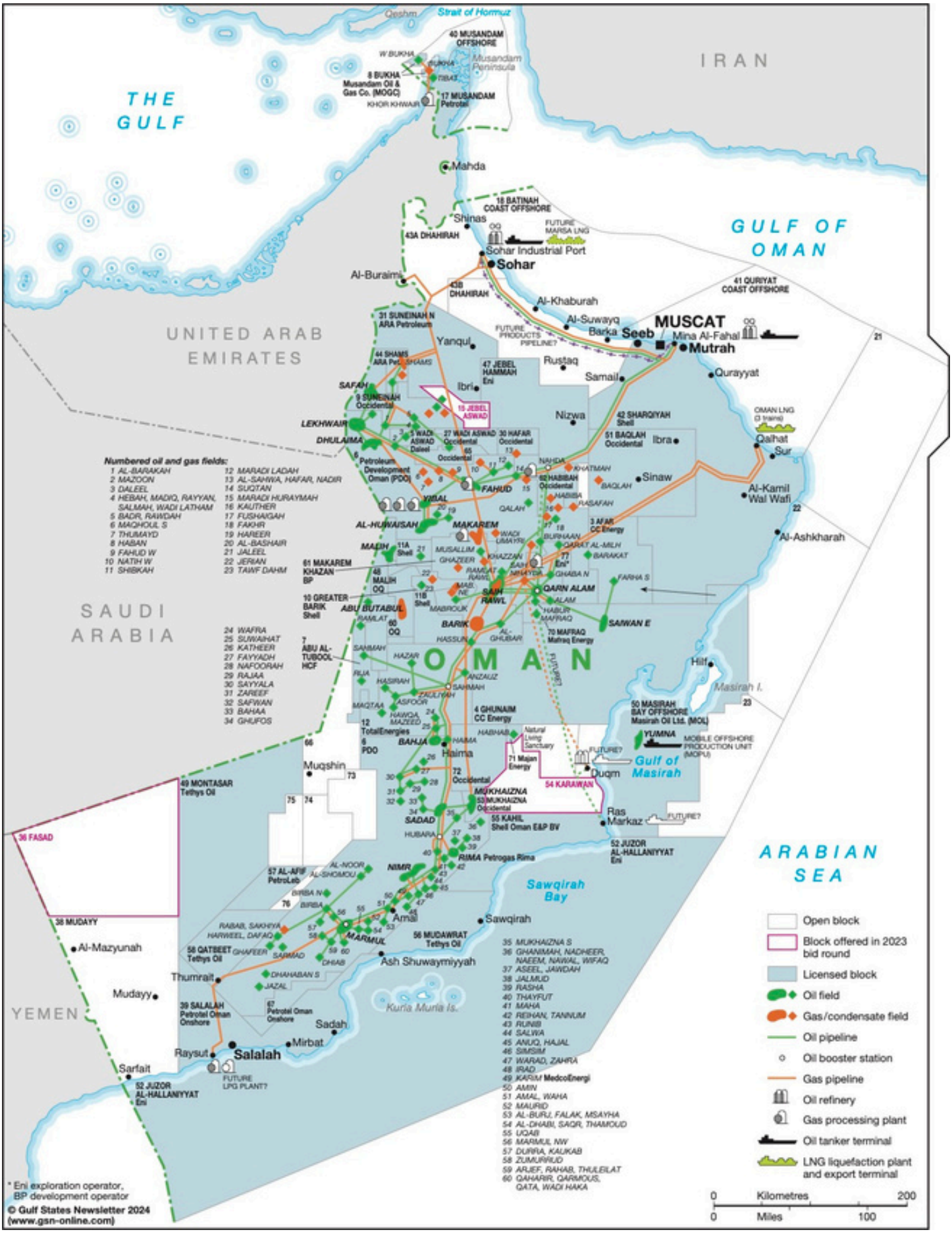
SOUTH CORRIDOR MAP


Iraq
Iran
Kuwait
Saudi Arabia
Bahrain
Persian Gulf
Strait of Hormuz
Qatar
U.A.E
Oman
East-West crude oil pipeline
Abqaiq-Yanbu NGL pipeline
Abu Dhabi crude oil pipeline
eia

peline routes to bypass the Strait of Hormuz

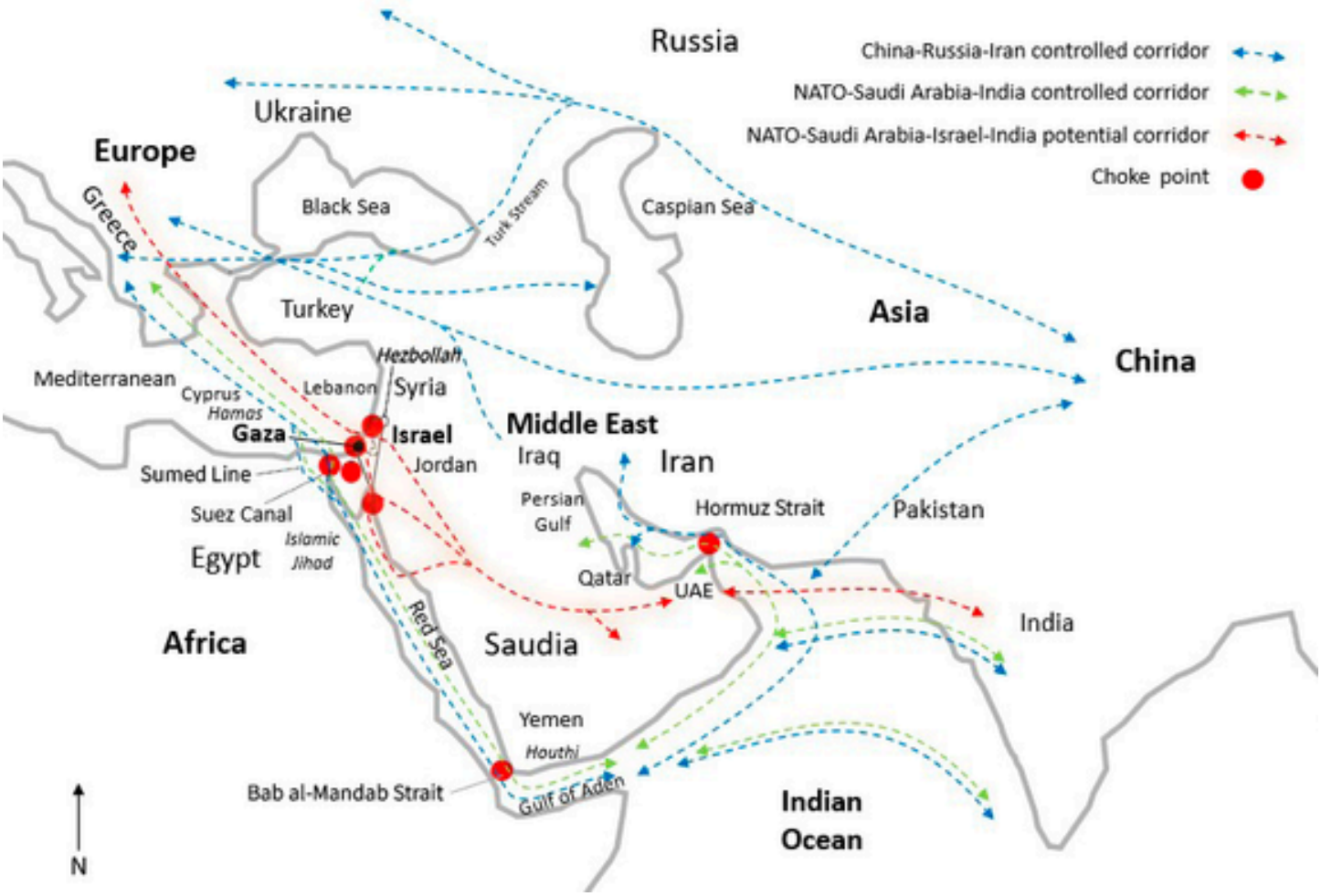


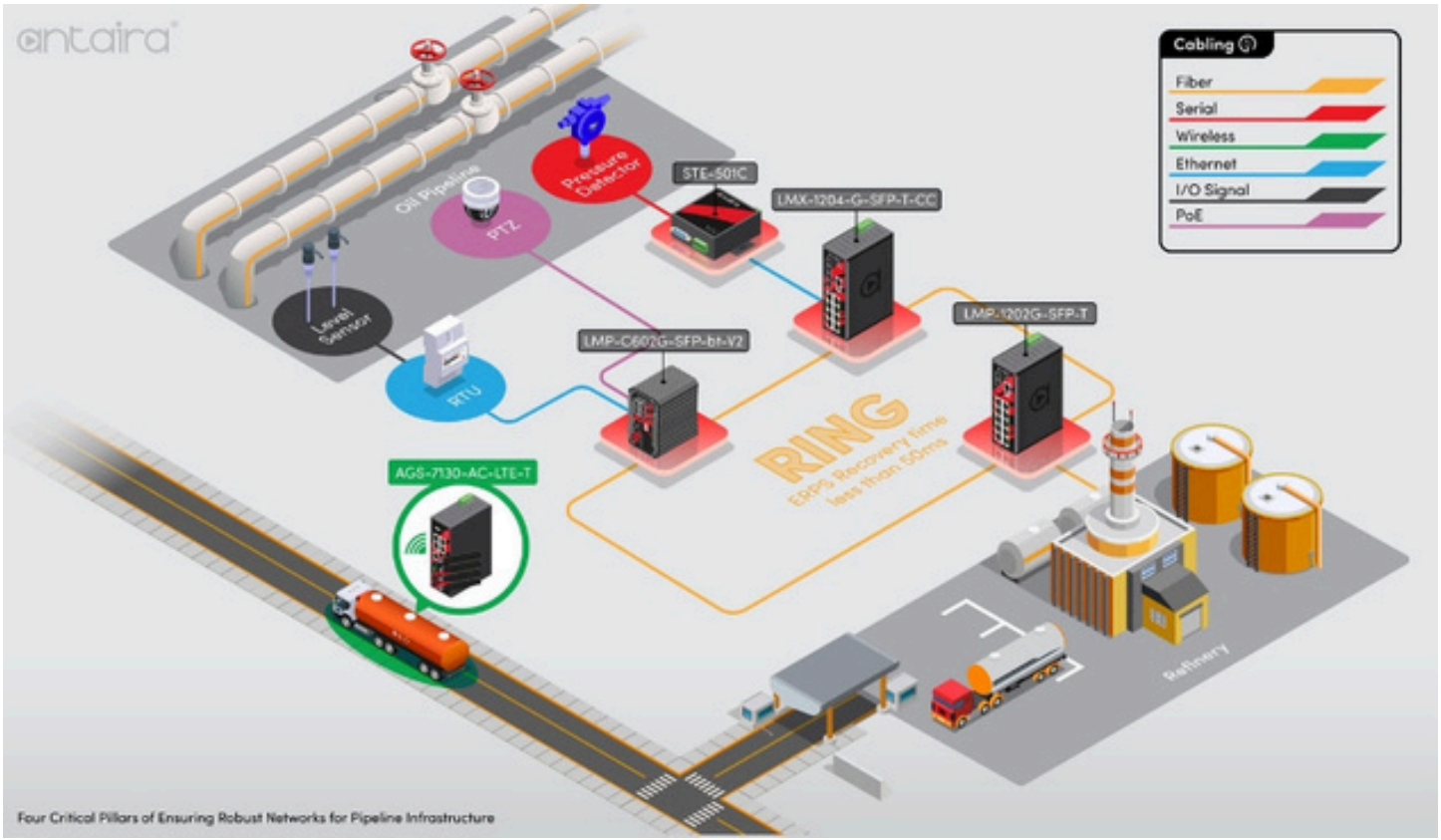

Strait of Hormuz
Khasab
Musandam Peninsula
Musandam
Dibba
THE GULF
IRAN
Dubai
Fujairah
Lahbab
Hatta
UNITED ARAB EMIRATES
Al-Wajajah
Shinas
GULF OF OMAN
Liwa
Sohar Industrial Port
Sohar
OHS
Mahadah
Al-Buraimi
Al-Ain
Al-Buraimi
Al-Batinah North
Saham
Al-Khaburah
Bu Baqara
Al-Suwayq
Muladdah
Seeb
MUSCAT
Mina Al-Fahal
Mutrah
Barka
Sunaynah
Yanqul
Dhank
Al-Batinah S.
Rustaq
Nakhal
Rusayl
MCT
Al-Amirat
Qurayyat
Al-Awabi
Samail
Wadi Muaydin
Al-Hamra
Ibri
Bahla
Nizwa
Izki
Fins
Tiwi
Qalhat
Sur
Al-Hadd
Manah
Ibra
Mamurah
Ad-Dhahirah
Adam
Sinaw
Bidiya
Ad-Dakhiliyah
Al-Kamil Wal Wafi
Ash Sharqiyah North
Jalan Bani Buali
Ash Sharqiyah South
Al-Ashkharah
Mahout
Shannah
Hilf
Filim
Al-Khaluf
Mirsays
Masirah I.
Al-Wusta
Gulf of Masirah
Haima
Duqm
UK JOINT LOGISTICS SUPPORT BASE
DQM
Muqshin
Ras Madrakah
Al-Jazir
Sawqirah Bay
Dhofar
Amal
Sawqirah
Shalim
Ash Shuwaymiyyah
ARABIAN SEA
Al-Mazyunah
Shisan
THUMRAIT AIR BASE
Thumrait
YEMEN
Mudayy
Hayjari
Hasik
Al-Hasikyah
Qarzawit
Al-Qibliyah
Al-Sawdah
Al-Hallaniyah
Kuria Muria Is.
SLL
Taqah
Mirbat
Sadah
Raysut
Salalah
Hawf
Sarfait
SAUDI ARABIA
OMAN
0 Kilometres 200
0 Miles 100
© Gulf States Newsletter 2021 (www.gsn-online.com)
0 Kilometres 50
0 Miles 25
Bandar Abbas
IRAN
Hormuz
Qeshm
Larak
STRAIT OF HORMUZ
Hengam
SHIPPING LANES
Salamah
THE GULF
WEST BUKHA
Umm Al-Ghanam
Musandam
Ras Qabr Al-Hindi
BUKHA
Musandam Peninsula
TIBAT DISCOVERY
Khasab
Ras Dilah
BLOCK 8 BUKHA Musandam Oil & Gas Co. (MOGC)
BLOCK 17 MUSANDAM PetroTel
Ras Sarkan
KHOR KHWAIR
Musandam
Limah
OMAN
Ras Al-Khaimah
FUTURE ROAD
BLOCK 40 MUSANDAM OFFSHORE PetroTel
Western Hajar Mountains
Dibba Al-Baya
Dibba Al-Hisn (Sharjah)
Dibba Al-Fujairah (Fujairah)
UNITED ARAB EMIRATES
GULF OF OMAN
Khor Fakkan (Sharjah)
Mahda
Nahwa (Sharjah)
Musandam
Governorate boundary
International airport (with IATA code)
Road
Oil field, oil & gas field, gas/condensate field
Oil pipeline/s, gas pipeline/s
Oil refinery
Gas processing plant
Oil tanker terminal
LNG liquefaction plant and export terminal

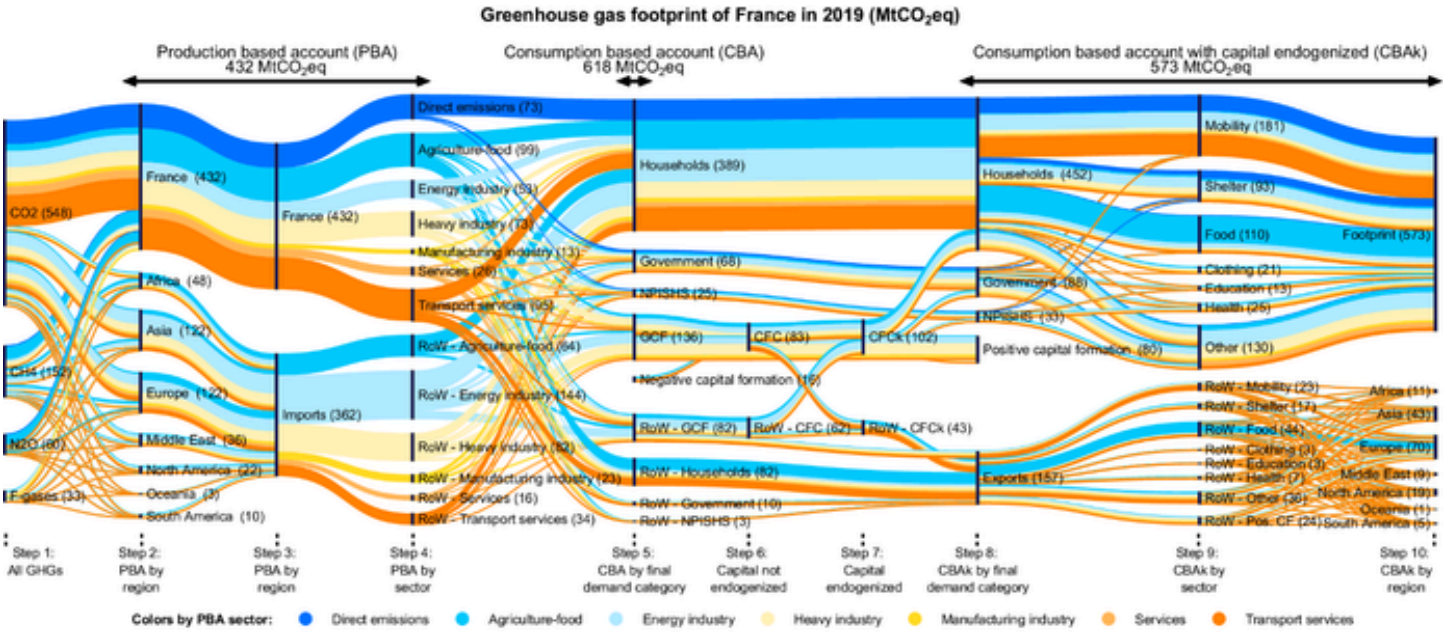


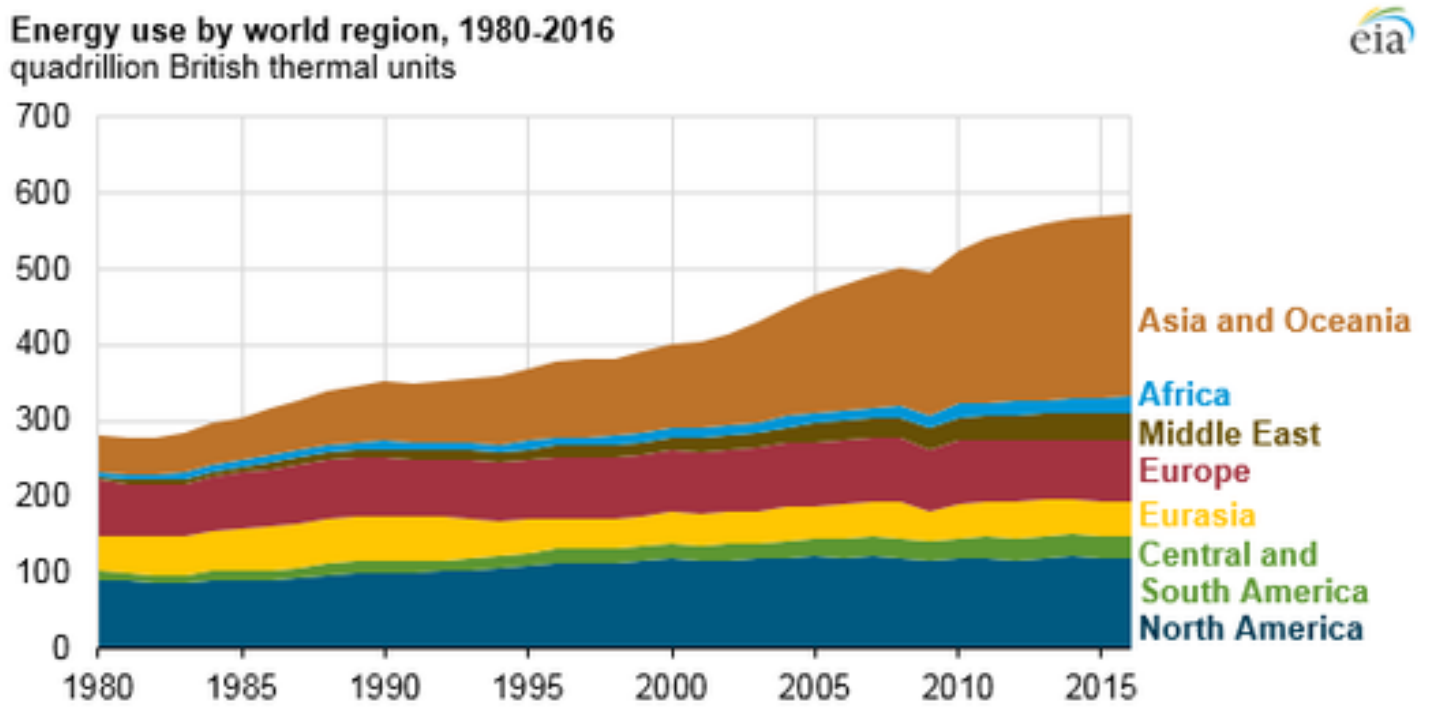
South Corridor connects Abu Dhabi to Fujairah and Oman export terminals, allowing oil to be exported directly to the open ocean without passing through the Strait of Hormuz.

SYSTEM FLOW DIAGRAM







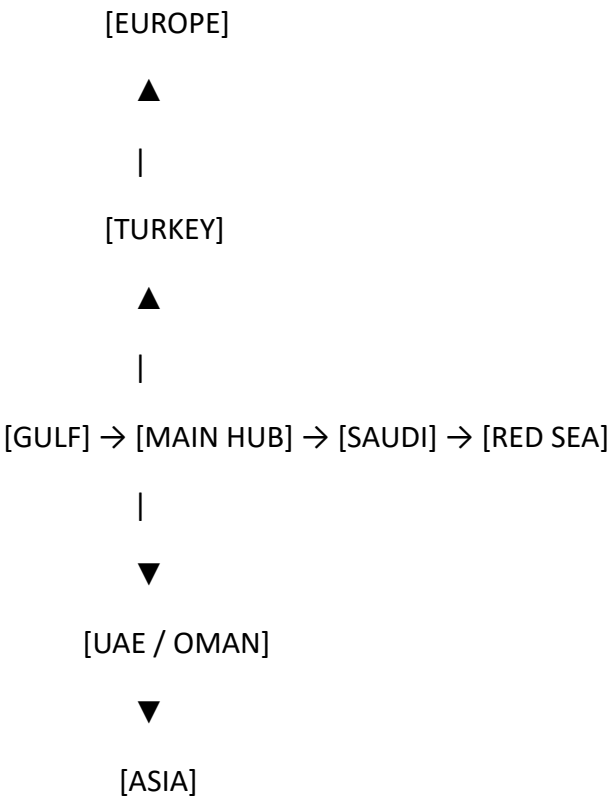


SYSTEM FLOW STRUCTURE

The Global Energy Corridor System is designed around a central distribution logic rather than a single pipeline.

The system operates through a main hub structure that allows energy to be redirected between Europe and Asia depending on geopolitical risks, supply disruptions, or market demand.

System Flow Logic:



System Advantage:

- If Hormuz closes → Red Sea route continues
- If Red Sea risk increases → Turkey route continues
- If northern route is disrupted → Ocean export continues
- The system never stops, it only reroutes

This transforms the energy infrastructure from a **single-route system into a network system**.

IMPLEMENTATION PHASES (UYGULAMA AŞAMALARI)

ENGLISH

IMPLEMENTATION PLAN

The project is designed as a rapid deployment system and can be implemented in three phases.

Phase 1 — Immediate Action (0–6 Months)

Goal: Immediate impact using existing infrastructure

Actions:

- Increase capacity of existing pipelines
- Increase Red Sea export capacity
- Optimize Iraq–Türkiye pipeline flow
- Temporary storage expansion
- Port logistics optimization

Impact: 20–30% reduction in Hormuz dependency

Phase 2 — Fast Expansion (6–18 Months)

Goal: Rapid capacity expansion

Actions:

- Construction of parallel mini pipelines
- Deployment of Floating LNG Terminals (FSRU)
- Modular storage systems
- Expansion of export terminals
- New logistics hubs

Impact: 50–60% reduction in Hormuz dependency

Phase 3 — Full Integration (18–36 Months)

Goal: Full system integration

Actions:

- Integration of all corridors into one system
- Digital monitoring center
- AI-supported routing system
- Smart rerouting infrastructure
- Global energy coordination center

Impact: 70–80% reduction in Hormuz dependency

TECHNICAL INFRASTRUCTURE

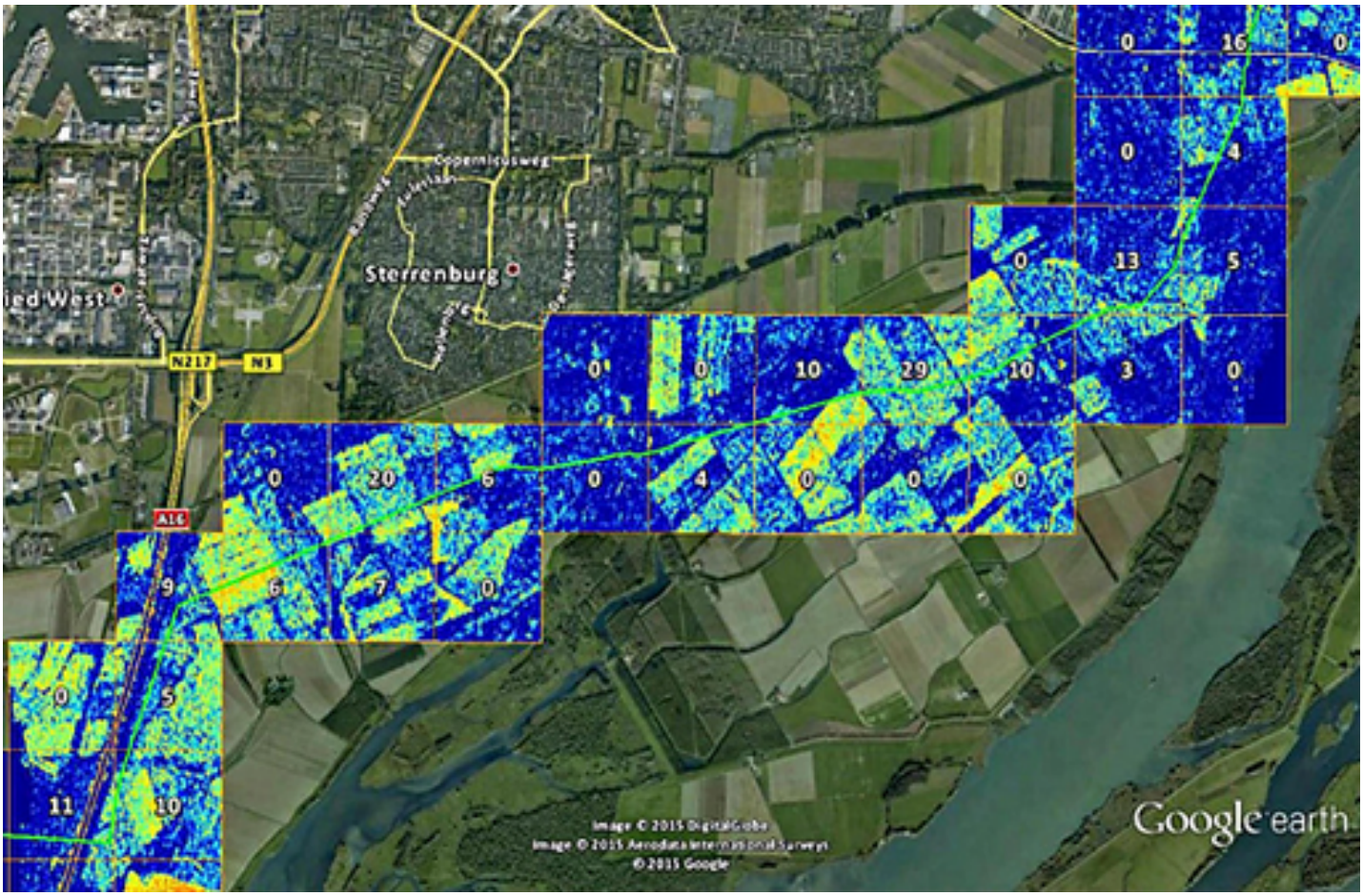
The Global Energy Corridor System will consist of integrated infrastructure components:

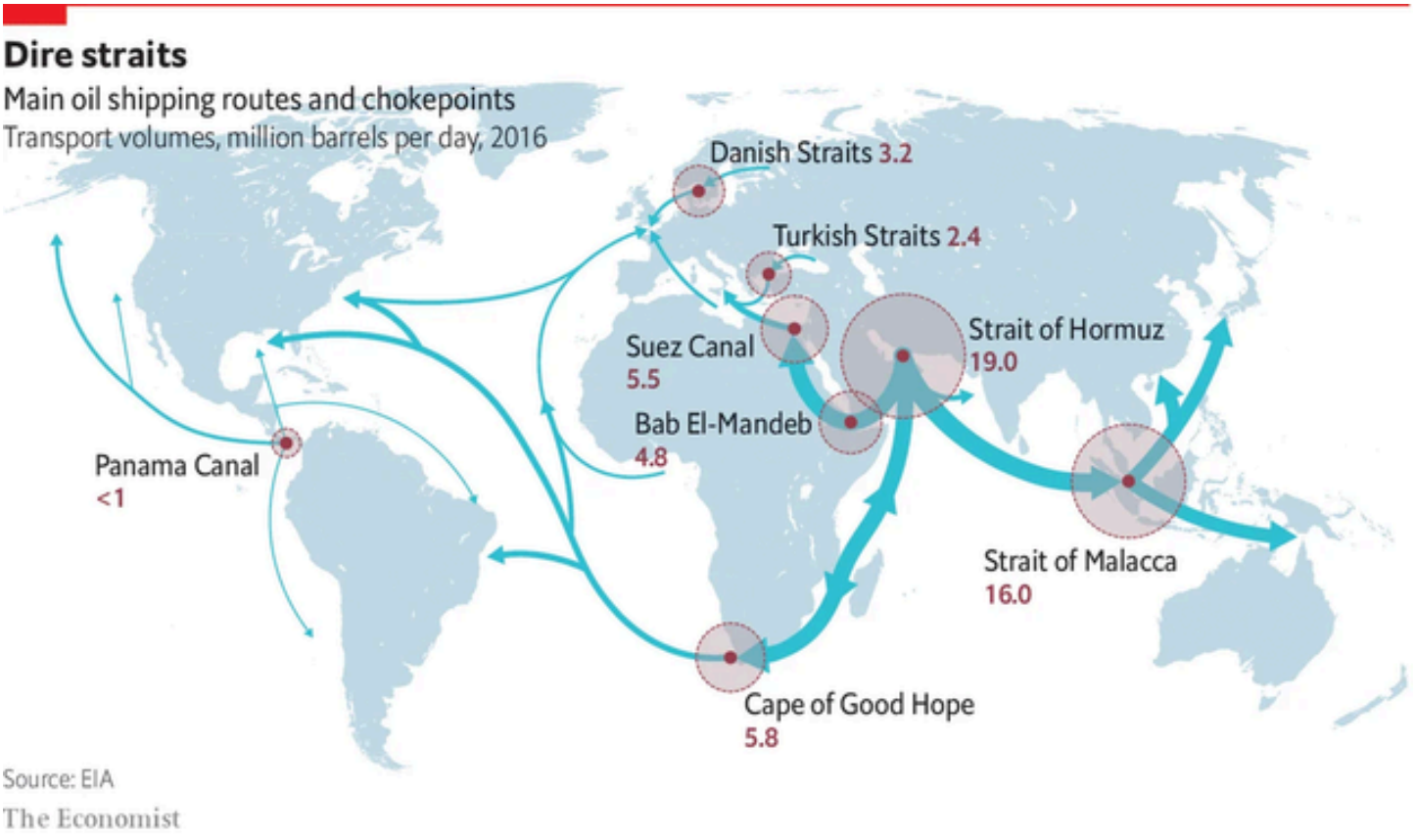
Main Components:

- High-capacity main pipelines
- Parallel support pipelines
- LNG terminals (Floating and Onshore)
- Modular storage units
- Export terminals and multi-port systems
- Digital monitoring and control systems
- AI-supported optimization software
- Smart rerouting systems
- Logistics and distribution hubs

The goal is not to build a single pipeline, but to create a **flexible and distributed energy network infrastructure**.

SECURITY SYSTEM


Sterrenburg
N217
N3
A16
Google earth



SECURITY FRAMEWORK

Energy corridors are not only economic infrastructure but also strategic security infrastructure.Therefore, the Global Energy Corridor System must be protected through a multi-layer security framework.

Security Layers:

- Military protection for critical pipelines and terminals

- Naval protection for export routes
- Satellite monitoring of infrastructure and routes
- Drone surveillance systems
- Cybersecurity protection for digital control systems
- Physical security for storage and logistics hubs
- International security coordination between corridor countries

The security of energy corridors should be considered as part of **global energy security and international trade security**.

FINANCIAL MODEL

The Global Energy Corridor System can be financed through a multi-source international financial structure.

Funding Sources:

- Sovereign Wealth Funds
- National Oil and Gas Companies
- International Energy Companies
- Infrastructure Investment Funds
- Development Banks (World Bank, AIIB, etc.)
- Public–Private Partnerships (PPP)

Long-Term Financial Structure: In the long term, the project can be institutionalized under a corporate structure called:

Global Energy Corridor Company

This company could:

- Manage infrastructure investments
- Operate logistics and distribution systems
- Coordinate international corridor operations
- Receive infrastructure usage fees
- Go public through an IPO (Initial Public Offering)
- Allow global investors to participate in the project

This would transform the project into both an **energy security system** and a **global investment platform**.

GLOBAL IMPACT

If implemented, the Global Energy Corridor System would have significant global economic and geopolitical impact:

Expected Global Impact:

- Stabilization of global energy prices
- Increased energy supply security
- Reduced geopolitical risk
- Protection against global supply shocks
- More stable energy supply for Europe and Asia
- Increased importance of transit countries
- Increased global trade security
- Reduced risk of global economic crises caused by energy disruptions

This project is not only an energy project, but also a **global economic stability and supply chain security project**.

FINAL STRATEGIC MESSAGE

This project should not be evaluated as a single pipeline project.

This project should be evaluated as a **Global Energy Security System**.

The main objective is simple:

If one route is disrupted, the system continues to operate through alternative corridors.

The world does not need a new pipeline.

The world needs a **resilient energy distribution system** that can operate even during geopolitical crises.

The Global Energy Corridor System is designed to achieve this goal.

DIGITAL AND TECHNOLOGICAL INFRASTRUCTURE

The Global Energy Corridor System is not only a physical infrastructure project but also a digital infrastructure system.

The system can be supported by modern technologies such as:

- AI-supported logistics and flow optimization
- Satellite monitoring of pipelines and maritime routes
- Drone-based infrastructure inspection and security monitoring
- Smart storage and distribution management systems
- Digital twin models for pipeline and logistics networks
- Real-time monitoring and rerouting systems
- Automated risk detection systems
- Multi-node distributed control systems

The objective of the digital infrastructure is to increase:

- Operational efficiency
- Infrastructure security
- Supply flexibility
- Risk management capability
- Real-time decision-making capability

This transforms the system into a **smart energy logistics network** rather than a traditional pipeline network.

ABOUT THE CONCEPT DEVELOPER

This strategic concept document was prepared by an independent researcher focusing on energy security, global trade routes, and strategic infrastructure systems.

The Global Energy Corridor System is a strategic infrastructure concept designed to reduce global energy chokepoint risks and improve global energy supply security through a distributed corridor network.

The concept focuses on system integration, rapid deployment infrastructure, and multi-route energy distribution strategies.

For cooperation, strategic discussions, or project development partnerships, please contact:

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